

1342nd ORDINARY GENERAL MEETING
Wednesday 10 June 2026 at 6:00pm

Gallery Room, Mitchell Building, State Library of NSW,

The 1342nd Ordinary General Meeting of the Royal Society of NSW will take place at **6:00 pm on Wednesday 1 July 2026** in the **Gallery Room, Mitchell Building, State Library of NSW, Shakespeare Place, Sydney**, followed by an open lecture. Registration and refreshments will be from 5:30 pm.

AGENDA

1. WELCOME AND APOLOGIES

Vice President, Em Prof Lindsay Botten FRSN.

2. MINUTES

Minutes of the 1341st Ordinary General Meeting will be reviewed.

3. PRESENTATION OF FELLOWSHIP AND MEMBERSHIP CERTIFICATES

The President will present certificates to new Members and Fellows who have notified the Secretariat of their attendance.

4. REPORT FROM COUNCIL AND COMMITTEES OF COUNCIL

The Vice President will update membership on the key activities of Council in 2026.

6. OPEN LECTURE

“Thin-film photovoltaics — the enabling engine for next-generation tandem solar cells”

Scientia Professor Xiaojing Hao FRSN FAA FTSE

ARC Laureate Fellow and

Deputy Director, ARC Research Hub for Photovoltaic Solar Panel Recycling and Sustainability

School of Photovoltaic and Renewable Energy Engineering

UNSW Sydney

Solar energy is already transforming the world, but meeting the demands of a net-zero future will require photovoltaic technologies that go beyond the limits of silicon alone. Tandem solar cells offer a powerful next step: by combining silicon with a wide-bandgap top cell, they can capture more of the Sun’s spectrum and deliver substantially higher efficiencies. Realising this vision, however, depends on solving a central materials challenge. The top cell must combine high efficiency, long-term stability, low cost, and scalable manufacturing — an exceptionally challenging combination to achieve in any one material system. In this talk, Xiaojing Hao will discuss advances in earth-abundant thin-film top-cell technologies developed by her research group and show how they are developing strategies to enable the next generation of tandem solar cells. Beyond higher efficiency, these developments point to a broader opportunity: more sustainable, affordable, and widely deployable solar energy for the future.

About the speaker

Xiaojing Hao is a Scientia Professor and ARC Laureate Fellow at UNSW, Sydney. She obtained her PhD in the School of Photovoltaic and Renewable Energy Engineering of UNSW in 2010. Her research focuses on low-cost, high-efficiency thin-film solar cells and tandem solar cells for both solar photovoltaic and solar fuel applications. She has led her group to achieve several efficiency records for emerging thin-film solar cells, including

wide-bandgap chalcogenides (kesterite, chalcopyrite, antimony chalcogenide) and perovskites.

Professor Hao has published more than 250 peer-reviewed journal articles, including a number in Nature Energy, Nature Photonics, and Energy and Environmental Science. She has been awarded more than 20 prestigious awards/prizes, including the 2020 Prime Minister's Prizes for Science: Malcolm McIntosh Prize for Physical Scientist of the Year, and the 2021 Australian Academy of Science Pawsey Medal. Professor Hao is an elected Fellow of both the Australian Academy of Science and the Australian Academy of Technological Sciences and Engineering. Most recently, she was the winner of the 2026 Royal Society of NSW Edgeworth David Medal.

7. VOTE OF THANKS

8. CLOSE

Em Prof Trevor Brown FRSN

Secretary